PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PS-5 PCT	ACTION as well as, where applicable, item 5 below.			
International application No. PCT/US04/42016	International filing date (day/month/year) 13 December 2004 (13.12.2004)	(Earliest) Priority Date (day/month/year) 12 December 2003 (12.12.2003)		
Applicant PARAALLEL SYNTHESIS TECHNOLOGIES, INC.				
according to Article 18. A copy is being This international search report consists of	of a total of $\underline{\psi}$ sheets.			
	by a copy of each prior art document cited in	n this report.		
the international a translation of the	international search was carried out on the bar application in the language in which it was file the international application into	ed, which is the language		
	de and/or amino acid sequence disclosed in			
3. Unity of invention is lacking. 4. With regard to the title, the text is approved as subn				
5. With regard to the abstract, the text is approved as subrick the text has been establishe may, within one month from	nitted by the applicant. d, according to Rule 38.2(b), by this Authority n the date of mailing of this international searc	as it appears in Box No. IV. The applicant the report, submit comments to this Authority.		
as suggested by the as selected by this as selected by this	Authority, because the applicant failed to sugge Authority, because this figure better characteric published with the abstract.	•		

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REFORE

PCT/US04/42016

Box No	o. I Nucle	eotide and/o	r amino acid	sequence(s)	(Continu	ation of item	1.b of the fi	rst sneet)	
l . With inver a.	regard to a ntion, the i	nternational s	and/or amino earch was carr	acid sequence ied out on the	disclosed in basis of:	the internation	al application	and necessary to	o the claimed
		a sequence l	listing						
		table(s) rela	ted to the sequ	ence listing					
ъ.	format o	f material							
		on paper							
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C.	time of	filing/furnishi	ng	•			•		
		-	the internatio	nal application	as filed	•			4
		filed togethe	er with the inte	ernational appl	ication in ele	ectronic form			
ļ ·		furnished su	ubsequently to	this Authority	for the purp	oses of search			
2.	filed o	r firmished th	ease that more ne required sta filed or does n	tements that the	he information	on in the subse	equent or addit	table relating the tional copies is it are furnished.	ereto has been dentical to that
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)			
This internati	This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Internat Please See C	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet			
1 2	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite			
3.	payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 1-21			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			

INTERNATIONAL SEARCH RELOA

PCT/US04/42016

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A microcontact printing pin (20) for depositing a liquid on a substrate includes a printing tip at a first end and a reservoir (14), which holds a supply of a printing fluid, communication with the print tip (15). A fluid delivery channel (12) extends between the reservoir and the printing tip and the channel has a tapered shape decreasing in width form the reservoir to the printing tip. This tapered shape ensures that the delivery of the printing fluid to the printing is smooth, accurate and controllable. The printing tip portion may also be thinned so that the portion provided with the reservoir and a stepped portion between the reservoir and the thinned printing tip portion that eliminates prespotting.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/42016

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : B01L 3/02					
US CL	US CL : 422/100, 99; 436/180; 73/863.32, 864, 864.01				
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
		1 (6-4)			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 422/100, 99; 436/180; 73/863.32, 864, 864.01					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
X, P	US 6,943,035 B1 (DAVIES et al.) 13 Septermber 200	05, entire document	18, 20-21		
x	US 6,101,946 A (MARTINSKY) 15 August 2000, en	itire .	1-3 and 6-8		
x ·	US 2002/0094304 A1 (YANG et al.) 18 July 2002, e	ntire document	1-3 and 6-8		
Y, P	US 6,808,683 B2 (GILBERT) 26 October 2004, entire	re document	4-5		
A,P	US 6,723,569 B1 (MOORE et al.) 20 April 2004, en	tire document	1		
A	US 5,957,167 A (FEYGIN) 28 September 1999, enti	re document	1		
A,E	US 6,835,352 B2 (Ito et al.) 28 December 2004, enti	re document	. 1		
Α	US 2003/0086827 A1 (HASLAM et al.) 08 May 200	2003, entire document			
Α	IS 2003/0148539 A1 (VAN DAM et al.) 07 August	gust 2003, entire document			
Further	documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents: "T"			ational filing date or priority date		
	and not in conflict with the application but cited to understand the "A" document defining the general state of the art which is not considered to be of particular relevance and not in conflict with the application but cited to understand the principle or theory underlying the invention				
•	"X" document of particular relevance; the claimed invention cannot be				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious			
"O" document	4.99.4 - 4.99.4				
	"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
Date of the a	Date of the actual completion of the international search Date of mailing of the international search report 25 OCT 2005				
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	ailing address of the ISA/US il Stop PCT, Attn: ISA/US	DEDODAH	A. THOMAS		
Con	mmissioner for Patents	PARALEGA	L SPECIALIS I		
	P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1700				
Facsimile No. (703) 305-3230					

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-21, drawn to a pin for depositing a liquid on a substrate.

Group II, claim(s) 18-21, drawn to a microcontact printing pin holder for use in producing a microarray.

Group III, claim(s) 22, drawn to a method of making a pin for depositing a liquid on a substrate.

The inventions listed as Groups (I and III) and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I and III do not have a corresponding technical feature to the special technical features of Group II, first planar member, first aperture, and elastomeric member.

The inventions listed as Groups I and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Group I does not include a corresponding technical feature the special technical features of the patterning and thinning steps of Group III

Continuation of B. FIELDS SEARCHED Item 3:

East

Keywords; pin, rod, reservoir, tip, print\$, channel, conduit, capillary, tube

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